

## CURING DISEASE BY LIGHT.

## RESULTS SO FAR OF THE USE OF THE FINSEN RAY.

Apparent Cures of Cases of Cancer and Consumption by the Means—The Apparatus and the Mode of Treatment—X-Rays as an Auxiliary—The Outlook.

With a few years there has arisen a school of therapeutics so different from all the other forms of treatment for diseases and so simple in its operations, that it would almost seem to lie without the limits of medical science. Light is the agency of healing.

With different rays and combinations of rays it seeks to strike at the very root of disease, to destroy the deadly germs that infect the blood and to correct the abnormal cellular growths that give rise to many of the most hideous of human ills.

For a long time the results of such treatment were looked on with doubt, but now the experiments in the laboratory of Prof. Finsen of Copenhagen, Denmark; of Dr. Andrew Clark of the Middlesex Hospital, England; of Dr. Hopkins of Brooklyn; of Dr. Williams of Boston, and in hospitals in New York, St. Louis and Chicago, seem to show that the two greatest scourges of the present age, cancer and consumption, can be eradicated by the simple action of intense light, while other minor diseases succumb to it.

To Prof. Finsen belongs the credit of phototherapy. Experiments satisfied him that certain germs could not live in sunlight. He then set about devising a light of great power which could be directed upon the flesh without harm or pain.

The problem was to eliminate the great heat which accompanies powerful rays of light. After years of labor he devised a tube containing a quartz crystal lens, which decomposes an electric light of great power, diverting the heat rays to a jacket of cold water, and directing the heatless, actinic rays, blue, ultra-violet and violet, down through the tube upon the subject.

This apparatus has been mechanically improved by Dr. Hopkins, so that by means of a hanging bracket the ray may be readily directed upon any part of the body of the patient stretched on a cot beneath it.

The operating room of a photo-therapeutic laboratory is strangely unlike any other operating room in its simplicity. There is the ray-apparatus and the cot for the patient; that is all. Besides the operator, one nurse is in attendance.

Picture to yourself a huge hanging basket of ornamental iron swinging from the ceiling, and inconspicuously sprouting on one side into a length of shiny brass telescope. This is the apparatus by which it is proposed to conquer the most dreadful of human maladies, cancer.

Inside the circle of the black iron is an electric light carbon so arranged that when the electric current is turned on, the light glows through the telescope tube. The current strength is eighty amperes, and the light produced is so dazzling that the eye cannot bear it, and the surgeon must go hooded like a falcon.

Against the wall is a 22,000 candle power lamp like the brightest of sunlight. The radiance poured down through the tube would quickly roast the flesh upon which it falls, were not the heat rays diverted by the quartz lens.

This lens is the difficult part of the instrument to obtain. Nothing serves the purpose so well as quartz, but a piece of quartz from which two-and-three-quarter-inch lens can be cut, flawless and perfect, is rare and expensive.

One operator in this country applied to a number of optical firms without success, and finally went to Tiffany & Co., who placed a ton of quartz at his disposal. Out of this the largest perfect crystal he could get would cut into a lens a little less than ten inches.

He had finally to send to Copenhagen. Now for the action of this surgery of light. Suppose the patient is suffering from lupus, that cancer which destroys the face, obliterating as dreadfully as leprosy itself, every appearance of humanity.

He is laid upon a cot under the apparatus. The tube is drawn down until its tip is within a few inches of the patient's face. There is a sizzling sound as the operator turns on the current, the sun-drawn radiance glitters on the wall and pours down through the quartz lens upon the gnawing cancer, and, invisibly, the miracle is working.

For an hour the patient must lie there. The light covers a spot about an inch in diameter. When the hour is up, the spot has paled a little from the heat and is surrounded by a red ring.

The next day another spot is treated, on the next still another. The treatment is daily, could be undergone half a dozen times a day if there were time, for the subject feels no sensation whatever. There is no physical or nervous strain.

Presently a strange thing is seen to have happened. About the edge, where the sore has been most malignant, sound new tissue begins to form. The cancer is being restricted and contracted.

Now and again it makes a rally, pressing forward its angry signals, only to be beaten back by the destroying and healing ray. The end of the battle is always the same. The lupus disappears and in its place is sound new tissue.

Not infrequently skin grafting is resorted to to restore that part of the face, provided an organ has been destroyed by the original operation.

In the malignant cancerous carcinoma of the breast and others, the nodes of which are deep, the Finsen ray has done work none so wonderful. It works slowly in these cases than in lupus, where the disease is on the surface, for the rays have little penetrating power; nevertheless there are complete cures to the extent of some twenty per cent of radiation to the body.

Before there is any apparent change in the condition, the offensive odor from the sore ceases and the disappearance of pain soon follows. Thus, shortly the healing process of the cure is complete.

After cures of malignant carcinoma of the breast are discharged from the hospital to be attended at home, several months are given for the patient to be free from the disease, and then a final check is made, and if all is well, the patient is discharged.

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## DETAILS OF THE EXPERIMENTS IN NEWFOUNDLAND.

Much to Be Done Yet Before Wireless Telegraphy Across the Ocean Is a Commercial Success—Conditions Under Which It Succeeds—Marconi's Own Theory of the Phenomena.

St. John's, N. F., Dec. 26.—Marconi's success in sending a wireless electric signal over the ocean came as a surprise to the people here in a measure. He came here ostensibly to select a base at some point between here and Cape Race where he could initiate experiments for picking up the Cunarders beyond the Grand Banks, about 300 miles off the coast. He brought along two assistants and two portable balloons, six kites and a variety of other apparatus.

For the past week he and his aids toiled away from daylight until dark on the bleak hilltop. People here felt that the trio were having hard luck, for they met a series of mishaps.

On Tuesday they sent up a balloon. It was 14 feet in diameter and contained 1,500 feet of hydrogen gas. Besides its guide rope it upheld an aerial wire, the fundamental feature of the Marconi system, and it was kept in position by four stays. But before these could be fitted the balloon burst its rope and wire sailed away.

On Wednesday Marconi sent up a silk and bamboo kite a few feet square, which he succeeded in maintaining in midair for nearly four hours. It was explained that he did this to discover the velocity of the air currents, and to determine the feasibility of balloon ascensions.

He got up the kite on Thursday for a shorter period. On Friday the breeze was too stiff to admit of anything being done, and on Saturday conditions were so bad that he had to abandon work. Sympathy was general for him.

But on Saturday night Mr. Marconi himself gave out a brief simple statement of his achievement. In a word Marconi announced that he had solved the problem of wireless telegraphy across the Atlantic.

This spring, the company which controls his invention for business purposes built at Poldhu, in Cornwall, the largest station of his system yet in existence. It is fitted with an electrical installation operating an instrument which sends out a force equal to thirty horse power.

This great current of electric fluid is discharged into the outer air by a giant conductor composed of twenty poles, each 210 feet high, and fitted with the aerial wires indispensable for the work, interwoven so that the current is given forth as a homogeneous whole. The power of this station is one hundred times greater than that of the ordinary Marconi stations for maritime news, and the place was designed especially for new experiments covering a wide range of ocean.

The establishment cost \$50,000. It was partly blown down by the September gales on the British coast. It is now partly rebuilt, and before Mr. Marconi left England he prepared a plan by which the chances of transatlantic signaling could be elicited.

His last night in England he was in Poldhu to be prepared for the receipt of a certain cablegram from him. It would indicate that the inventor was ready with his apparatus here and that beginning the day after receiving the dispatch the Poldhu man was to send for three hours daily, at five-minute intervals, signals according to the code which he had devised, to be continued daily (Sundays excepted), until instructions to the contrary were received.

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## MARCONI AND HIS AMBITION.

## WORK THAT FINALLY SENT A SIGNAL ACROSS THE OCEAN.

Showered Inventive Genius as a Boy—Began Sending Wireless Signals Seven Years Ago—When 20—Characteristics—His Engagement to an American Girl.

Marconi, the young Italian who believes that he has sent a wireless signal across the ocean is the same Marconi who seven years ago was worrying his parents with strange ideas about sending a message through a hill on his Italian estate. At 8 years of age he had shown inventive ability; at 12 his tutor attempted to rob him of a device he had put together; at 16 he was deep in mathematical, chemical and electrical problems and his family had come to look upon the boy as an inventive genius.

But when, at the age of 20, he developed his idea of telegraphing through hills and forests and stone walls without any connecting medium whatever his friends derided the line. It was preposterous, they said.

The boy thought about the matter for a whole year—the idea of using a Bramley coherer to detect electric vibrations in the ether at a distance from their source had occurred to him in his study and reading of the work of Hertz; but as he afterward explained, he did not make any experiments because he felt that the same idea had probably come to several others and that some one would have the whole field of wireless telegraphy developed before he, hardly more than a boy, could make a fair beginning.

So it came about that young Marconi took up the subject of wireless telegraphy against the protests of his family and friends and carried on the work for months with nothing but jeers and ridicule from the scientists and professors to encourage him. His parents watched his youthful enthusiasm grow—there was no problem too great for him—until success after success induced him to go to England.

From that time until Dec. 13, when the world was electrified by the news that he had signalled across the Atlantic Ocean, he worked patiently, steadily and undaunted, always dreaming of just such an achievement as he has now made, and unmoved by any outside influence that did not help him in his work.

Marconi made his greatest success when he sent just such a faint signal as was flashed across the ocean from one side of a room in his father's house to the other. His success then did not disturb his even calm and that is why the present accomplishment has not changed him.

It requires some strength of character to withstand the ridicule which is being heaped upon this young man of 27, but he has already been put to a severe test along this line. Among his friends two kites are provided to be numbered, Edward of England and Victor Emmanuel of Italy, both of whom are indebted to the inventor for favors.

Edward was Prince of Wales, Marconi installed his system of wireless telegraphy on the royal yacht and sent daily bulletins to the Queen during the voyage. From that time on he has been the young Italian gave the use of his system to the British navy.

From Edward he received a royal patronage, and from Victor Emmanuel the title of Chevalier in the Order of the Crown.

One day, before the Queen's death, Marconi received a telegram requesting his presence at Windsor. The post office people who received and delivered the message were in a state of great excitement, and they were quite paralyzed when Marconi wrote out his reply stating that he could not come that afternoon, but that he would be there on the following day.

Those who knew him best were not surprised at the news of what the world regards as his greatest success, but only those who were closest to him can tell what the accomplishment of transatlantic telegraphy meant to him. Over a year ago he became engaged to an American girl, Miss Josephine E. Heath, and when an intimate friend asked him when he expected to get married he replied:

"I don't think I have ever been so happy as I